23 December 1954

Dear Joe:

X1 Subject: [redacted] PAR 223, Monochromatic Lens System

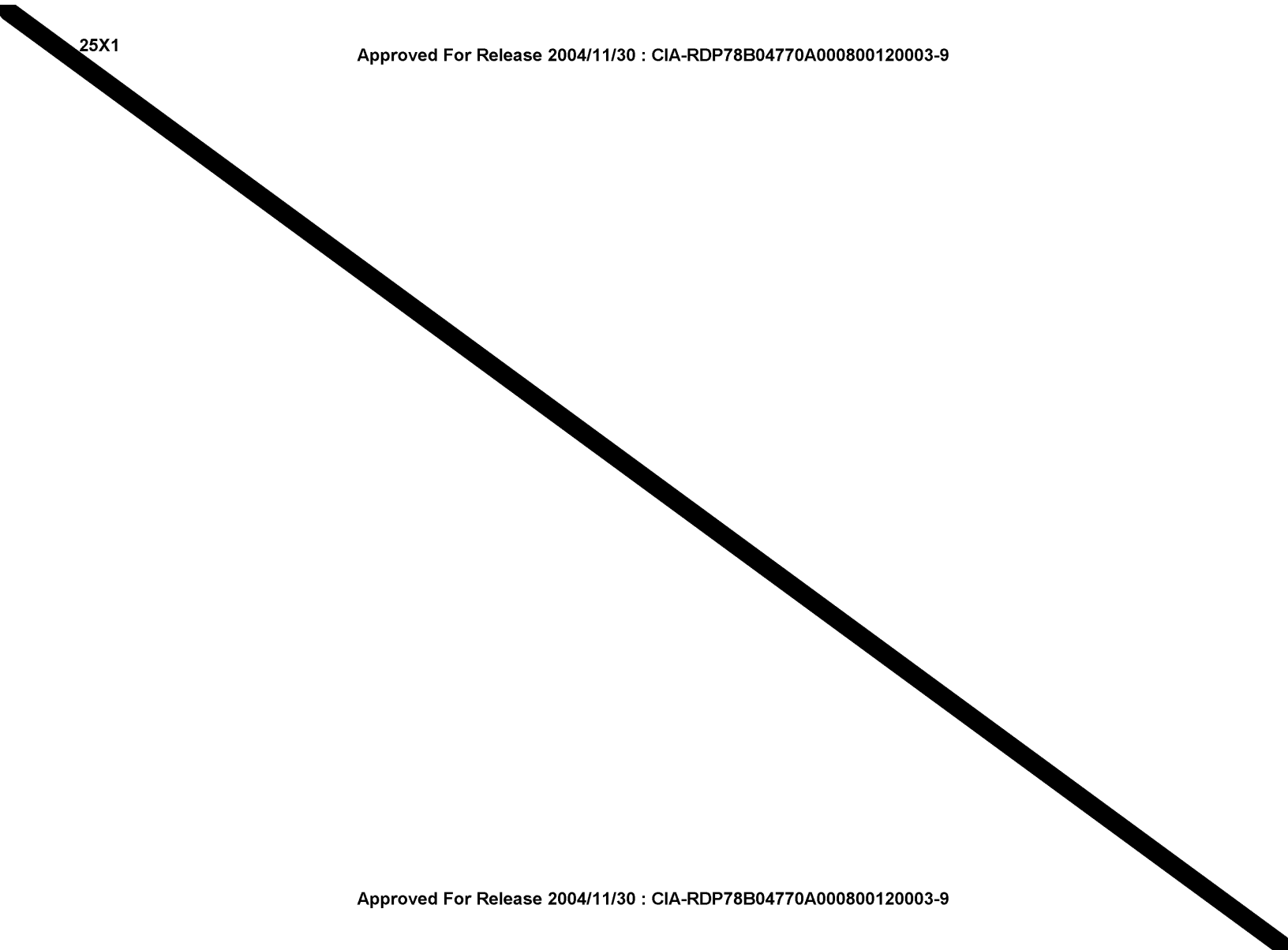
We are forwarding herewith PAR 223 with Cost Estimate Sheets for your review.

Dick

RRM:eb
In Duplicate
PAR 223 (1)
Cost Est. Sheets (2)

cc: JC w/encs.
PAR 223 (4)
Cost Est. Sheet (1)

Approved For Release 2004/11/30 : CIA-RDP78B04770A000800120003-9



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23 June 1964

MEMORANDUM FOR THE RECORD

See the Trip Report covering the period 8 - 11 June 1964 for comments concerning this project.

[redacted]
Admin. Monitor, [redacted]
Development Branch, P&DS

25X
25X

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 AL-14

P. O. Box 2143
Main Post Office
Washington, D. C.

26 February 1964

File RSD
11 Mar 64

25X1 [redacted]

25X1

At a meeting at [redacted] on 3 and 4 February 1964, you requested that a statement describing specific needs for a monochromatic lens system be relayed to you for consideration.

A specific type instrument to be considered for a monochromatic lens system design is a basic rear projection film viewer. Parameters to be taken into account in the design are:

1. Screen size to be 30 inches square.
2. Film gate size to be 5 inches square.
3. Lens system to zoom at ratio of 10 to 1. Magnifications to range from 6X to 60X.
4. Radial distortion should be minimized so that across the screen face of 30 inches, no distortion is apparent.
5. Lens aperture shall be fixed in size and position throughout the zoom range.
6. Desired goal for resolution to be 10 l/mm per power. The projection field is to be flat so that the minimum resolution over the entire field will not be less than 6 l/mm per power.
7. Spectral zones to be considered are the near ultraviolet 3500-4000 Angstrom band and the 7600-7950 Angstrom band.

In addition to a zoom lens, a series of monochromatic fixed conjugate lenses with magnifications of 6X, 12X, 24X and 48X should be considered. These lenses would be for use in the same type viewer.

Yours truly,

[redacted] 25X1